

DERWENT-ACC-NO: 2000-000301  
DERWENT-WEEK: 200001  
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TITLE: Power electronic adjusting unit for implementing  
variable speed  
operation of induction generators with short- circuited  
rotors

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PRIORITY-DATA: 1998DE-1017412 (April 18, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
DE 19817412 A1	October 21, 1999	N/A
004	H02P 009/14	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
DE 19817412A1	N/A	1998DE-1017412
April 18, 1998		

INT-CL\_(IPC): H02P009/14  
ABSTRACTED-PUB-NO: DE 19817412A

BASIC-ABSTRACT:

NOVELTY - A power electronic adjusting unit for implementing  
a variable speed  
operation of induction generators with short-circuited rotors  
consists of: a  
stator-side exciter device (2) for the induction generator  
(1) for conducting  
the reactive current of the generator; a stator-side  
rectifier (3) for  
conducting the active current of the generator; a mains  
feedback device (4) for  
energy transmission from the generator into the mains; and  
where applicable, a  
DC converter (5) between the rectifier and the mains feedback  
device if neither

the rectifier nor the feedback device are in the position to implement control of direct voltage between them. The active power of the generator is converted additionally or only in electrical resistances (6-10). The exciter device consists of a valve set (11) with valves that can be disconnected or self-quenching valves.

USE - None given

ADVANTAGE - With minimal expense in power electronics, the plants can be driven with minimum or optimized noise and emissions, whilst wind power plants can be implemented with inexpensive and robust induction generators, especially without gearboxes.

CHOSEN-DRAWING: Dwg.1/2

DERWENT-CLASS: X13 X15

EPI-CODES: X13-G02A; X13-G02T5; X15-B01B;

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	1707	(alternator generator dynamo) same (variable adj (speed rotation rppm))	USPA T	2002/05/24 14:39	
2	BRS	L2	522	1 and rectifier	USPA T	2002/05/24 14:39	
3	BRS	L3	464	2 and (switch short\$4 bypass divert\$4)	USPA T	2002/05/24 14:40	
4	BRS	L4	1123	wind adj (turbine mill motor)	USPA T	2002/05/24 14:41	
5	BRS	L5	7316	3 amd 4	USPA T	2002/05/24 14:02	
6	BRS	L6	25	3 and 4	USPA T	2002/05/24 14:02	
7	BRS	L7	1141	(alternator generator dynamo) same (variable adj (speed rotation rppm))	EPO; JPO; DERW ENT	2002/05/24 14:39	
8	BRS	L8	82	7 and rectifier	EPO; JPO; DERW ENT	2002/05/24 14:39	
9	BRS	L9	24	8 and (switch short\$4 bypass divert\$4)	EPO; JPO; DERW ENT	2002/05/24 14:50	
10	BRS	L10	3763	wind adj (turbine mill motor)	EPO; JPO; DERW ENT	2002/05/24 14:41	
11	BRS	L11	1	9 and 10	EPO; JPO; DERW ENT	2002/05/24 14:42	
12	BRS	L12	23	9 not 11	EPO; JPO; DERW ENT	2002/05/24 15:10	

*James  
Sant*

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
13	IS&R	L13	15	(("5177677") or ("5731693") or ("5793625") or ("5946202") or ("5151641") or ("5254935") or ("5256959") or ("5495162") or ("5663631") or ("5696430") or ("5705917") or ("5726557") or ("5801516") or ("5942818") or ("5966001")) .PN.	USPA T	2002/05/2 4 15:10	